

Pearson - Howland

Ex: 14 - July 1966

Memoranda

~~ADP~~
ADP
CP
9/3/68
Done

D. Pearson
Howland Is

12 July 1966

Sooty Returns
for

July 12

July 13

July 15

D. Pearson

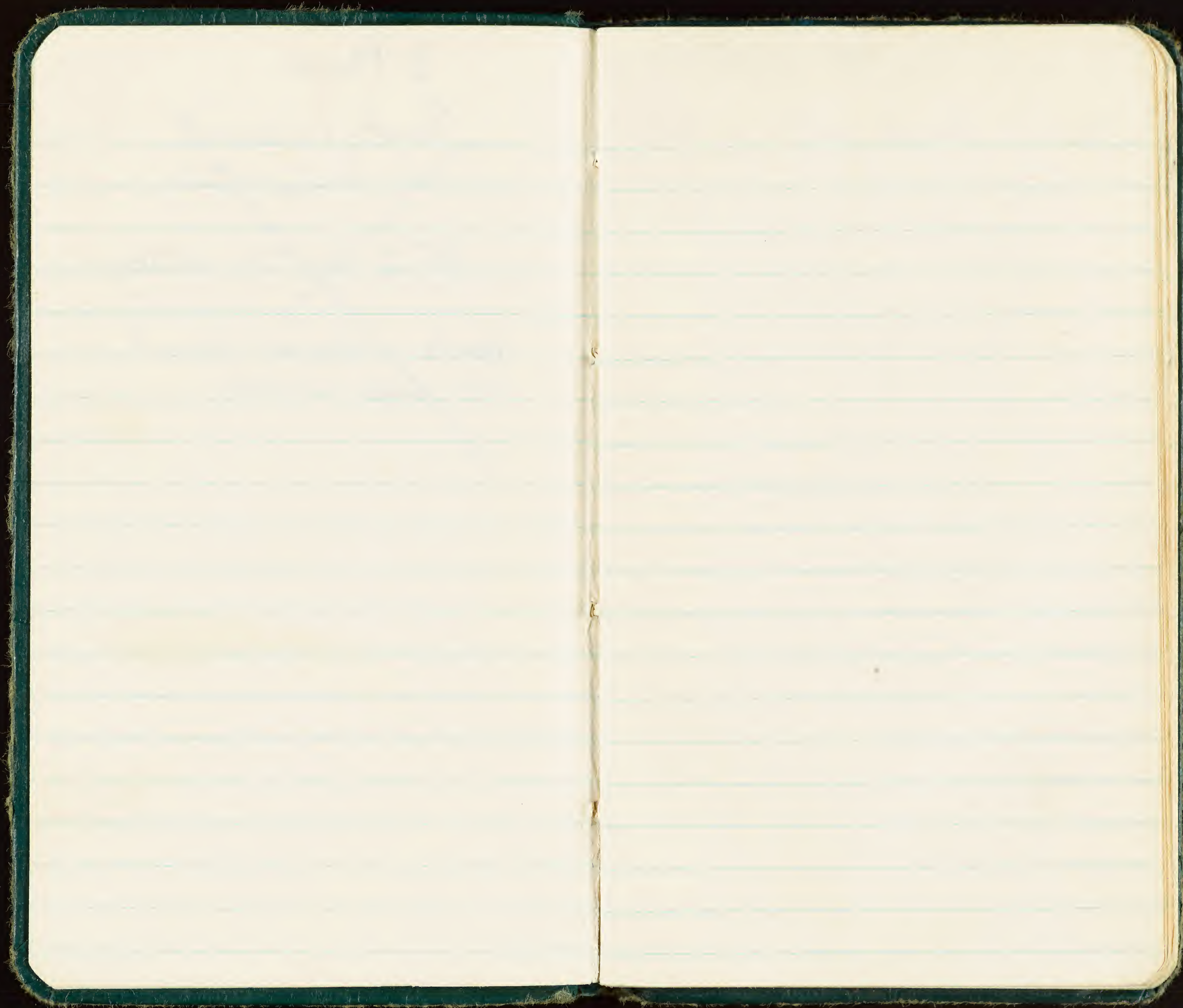
Bands received

~~12 July 1966~~

~~953-01501-02500~~

~~bands returned unused~~

~~953-01801-02500~~



12 July 1966

Sooty Tern banding (adult)

Sooty Tern return
12 July 1966

✓ ADP

~~843-34115~~ 1e ✓
~~55013~~ 1y ✓
~~37395~~ S ✓
~~35553~~ 1y ✓
~~35636~~ 1e ✓
~~37521~~ S ✓
~~37050~~ 1y ✓

~~793-419572~~ 1y ✓
~~47919~~ 1e ✓
~~43496~~ S ✓
~~49584~~ 1y ✓
~~45070~~ S ✓
~~30348~~ S ✓
~~44205~~ 1y ✓
~~48021~~ 1e ✓

y = chick
e = egg
s = sitting

Sooty Tern returns
12 July 1966

~~773-25816~~ 1y ✓
~~21655~~ S ✓
~~24410~~ S ✓
~~26594~~ 1e ✓
~~21533~~ S ✓

collet 723-
61001-61600

13 July 1966
Howland Is. Survey

D. Pagan

ad 1 nests: BFB

[illegible]

~~Brown Booby~~

$$\begin{array}{r} 230 \\ 162 \\ 247 \\ \hline 639 \end{array}$$
$$\begin{array}{r} 41 \\ 22 \\ \hline 68 \\ 19 \\ \hline 87 \end{array}$$

13 July 1966

D. Pearson

Hawland Is.

Sooty Tern Adults

Bands received

953-07901 - 08000

(100)

953-01801 - 0,2000

(200)

953-02801 02900

(100)

bands returned

953-01801-01900

Howland Is. 13 July 1966

Sooty Tern returns

773-21321-S ✓

22362-S ✓

22312(e) ✓

25962-S ✓

24598-S ✓

27585-S ✓

27007(e) ✓

21188(e) ✓

23138(e) ✓

Howland Is. 13 July

Sooty Tern return

843-36674 (e) ✓

38276 (e) ✓

37915-S ✓

35659 (e) ✓

37105 (e) ✓

38605 (e) ✓

823-01956 (e) ✓

793-45355-S ✓

43703-S ✓

46278(e) ✓

44249(e) ✓

44180(e) ✓

49415(e) ✓

48022-S ✓

46463-S ✓

Howland Is.
15 July 1966

P. Pearson
Sooty Terns ad.

bands received
953-09001-10,000

Planned unused -
953 - 09001
09500

Paint

17 / 100

13 / 100

7 / 100

2 / 100

5 / 100

Howland Is. 15 July

Sooty Tern veterans

773-25241(e) ✓

29808 (BP) ✓

27146 (C) ✓

29314 (BP) ✓

29127 ✓

793-43488 (1/2 BP) ✓

48923 (chick) ✓

46002 (no BP) ✓

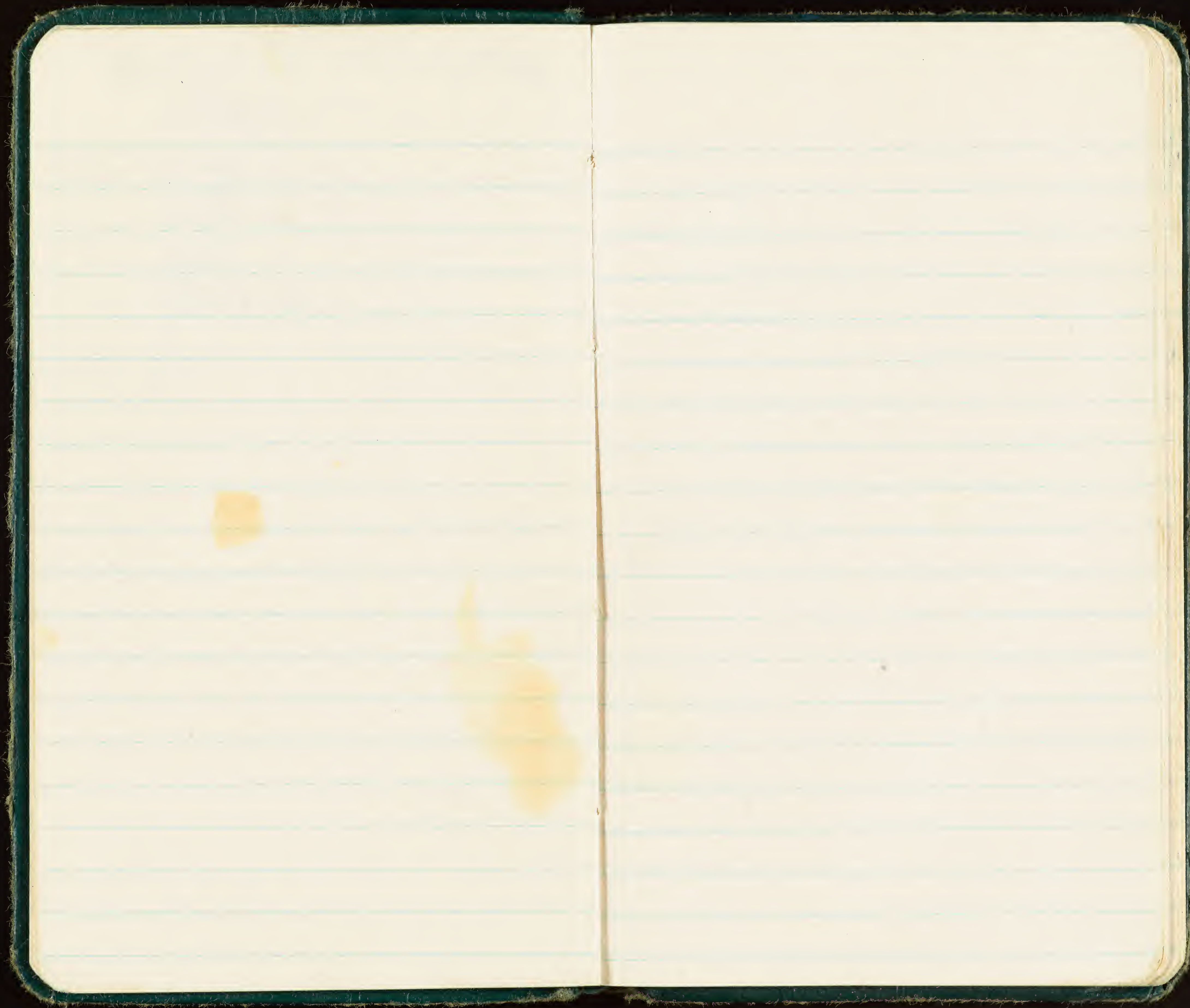
43436 ✓

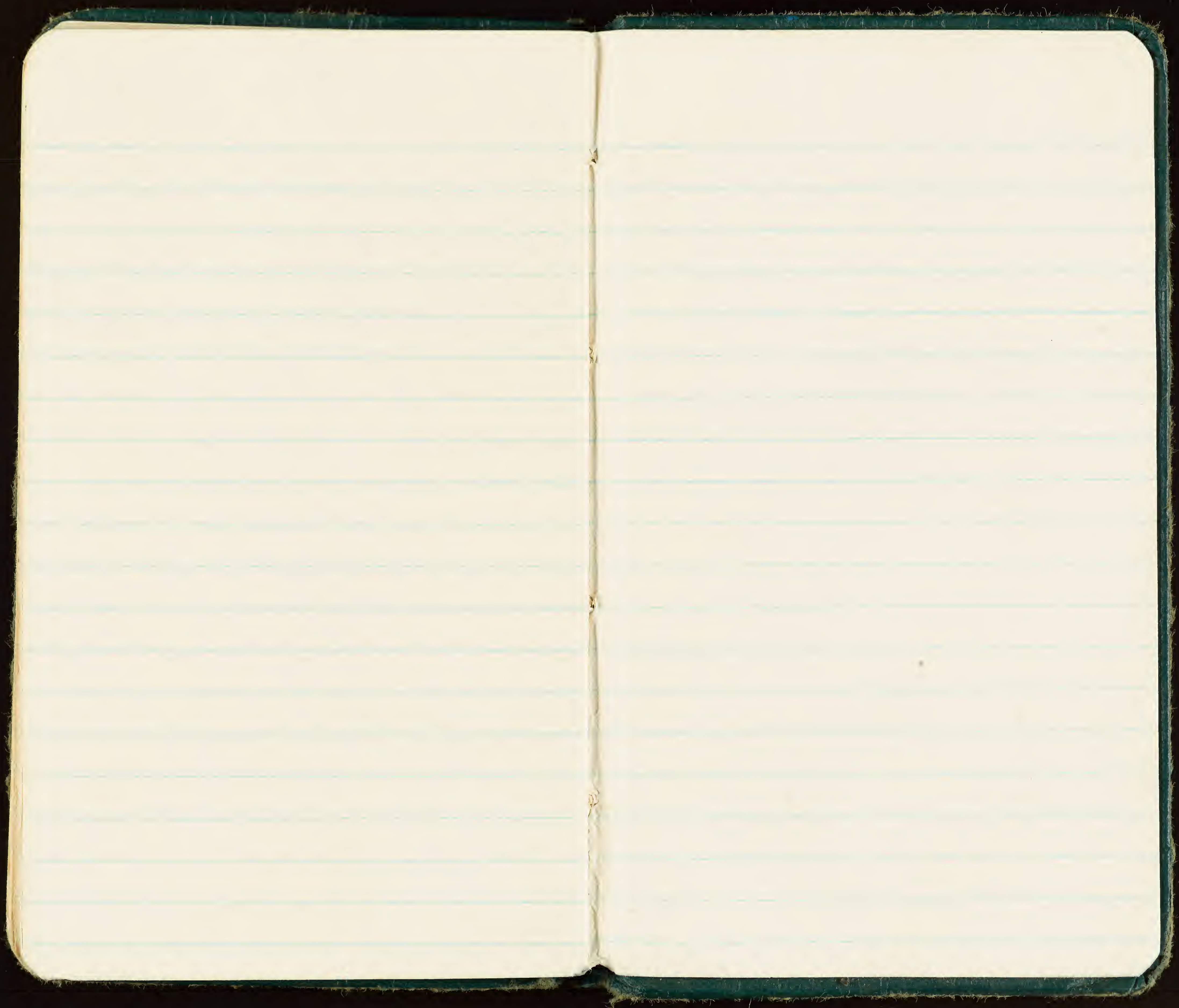
46632 ✓

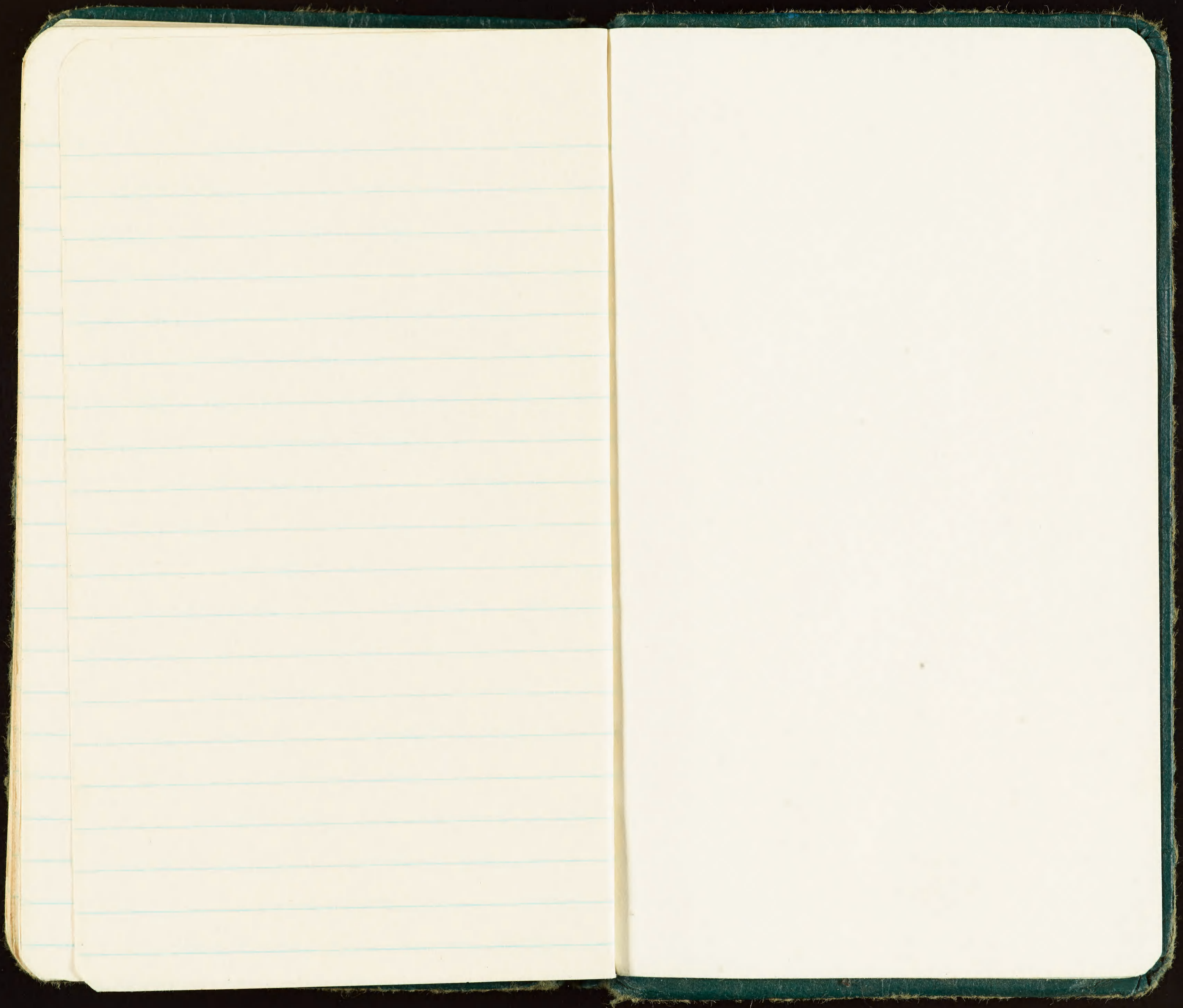
48846 ✓

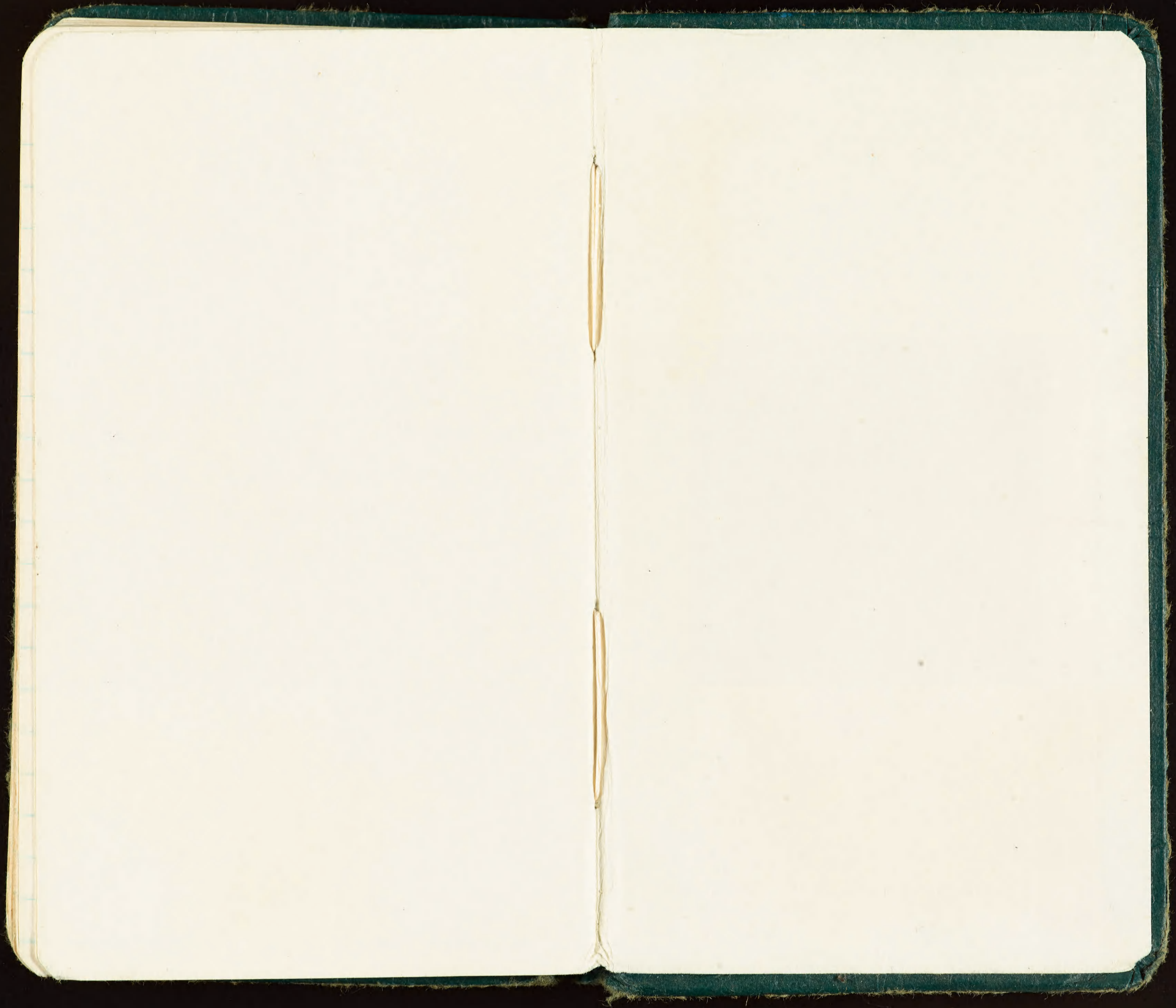
Howland Is. 15 July 1966
Deane

843 - 55330 - s ✓
38995 - s ✓
38882 - s ✓
55043 - BP ✓









7530-222-0078
FEDERAL SUPPLY SERVICE

HOWLAND

Memoranda

1966
✓ ADP
Done 9/2/68

HOWLAND ISLAND
PACIFIC OCEAN
POBSP
12 JULY →
RW SCHREIBER

Sooty Returns
for

July 12
July 13 14
July ~~14~~ 15
July 17
July 18
July 19

[Faint, illegible handwriting on lined paper]

ds

5

N

Hermit crabs - turn over log stump +
in area 6 x 1 1/2 feet counted 67 crabs

shark

R~~at~~ other crabs,

~~W.T.~~ TROPICBIRDS - saw 11

B.F. boobies ~~is~~ scattered along edge
of island - mostly to ~~SE~~ ^{SE}? counted 497
(pers. $\bar{\sigma}$ ch
on 1500 birds)

Blue-gray NODDY

Wandering Tattler (coll)

SOOTY TERN

LESSER FRIGATES - $\bar{\sigma}$ $\bar{\sigma}$ white under

wing

ST. colony on eggs - at end
chicks (10+) other end eggs
~~2~~ chicks (1-10)

8 Golden plovers

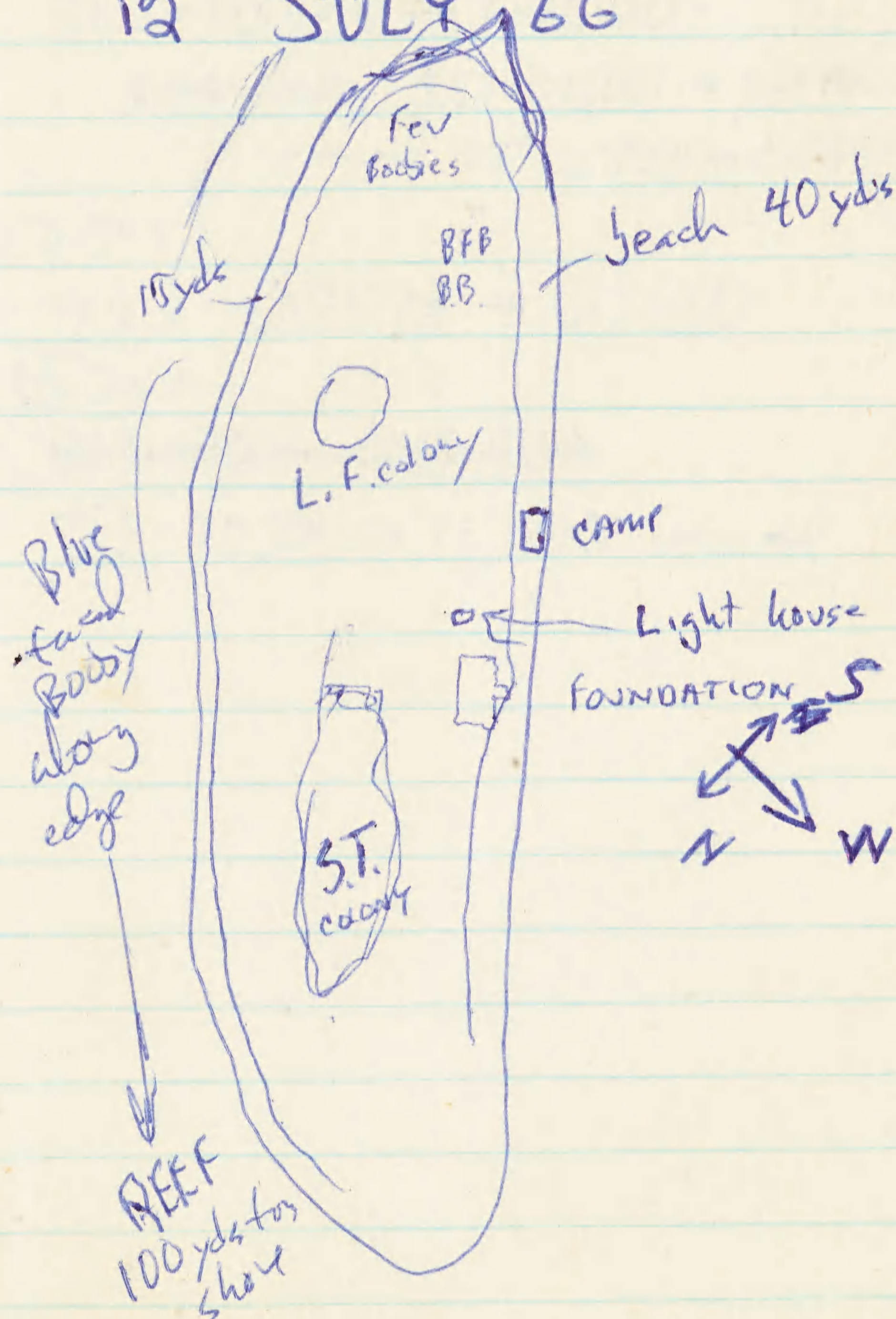
About 1530 swirl of sooty terns
begins to build up

HOWLAND IS

ISLAND SURVEY

SCHREIBER + HUBER

12 JULY '66



HOLLAND

✓ ADP

RETURNS: RECOVERY

737-39672

✓ BLUE STREAMER

BANDS RECEIVED

12 JULY

12 JULY

953-03501 → 04500

BANDS USED 953-035001 → 953-04000

" returned 953-04001 → 04500

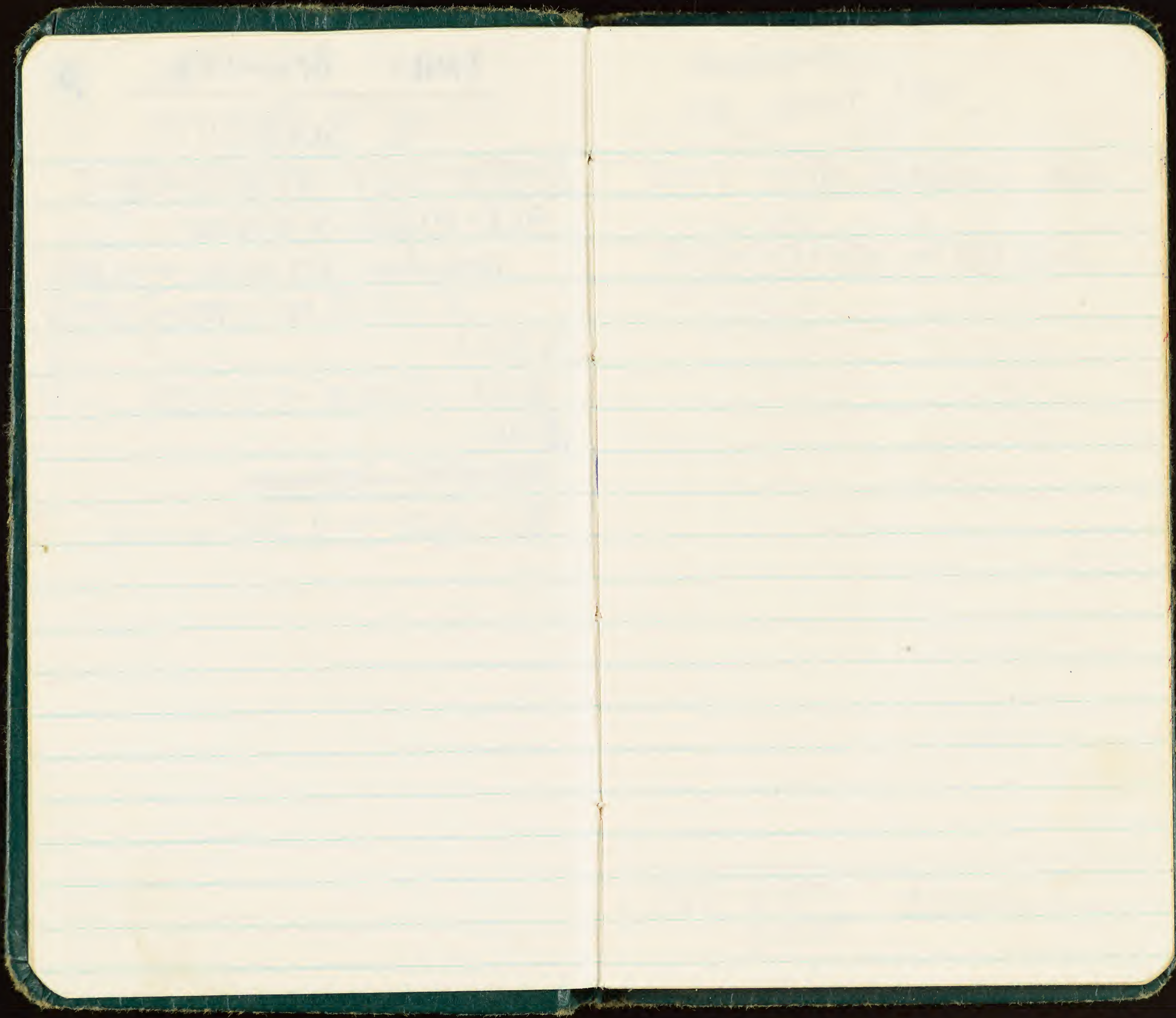
13 JULY

953-00501 → 01000

15 JULY

~~953-10001 → 110,500~~

953-10,501 → 11,000 received



HOWLAND

12 JULY 1966

~~SOOTY TERN BANDING ADULT~~

~~953-03501 → 04000~~

723-61001
61600

RECOVER !

12 JULY '66

SOOTY TERN RETURNS

793-72732 oe

43541 oe

44698 wch

46613 wch

44717 wch

44718 wch

44827 ?

44287 wch

44317 wch

47193 oe

40341 oe

43630 ch

30398 ?

45460 ch

49530 ch

47550 ?

49201 ch

30215 ch

45188 ch

843-37282 noe or ch

55257 oe

55021 oe

35618 oe

37884 ?

36581 ch

38432 ch

12 JULY 66

SOOTY TERN RETURNS

773-26785 oe

29649 oe

21015 oe

29373 ?

25807 ?

29072 ?

29434 ch

20072 ?

23420 ch

24688 ch

23084 ?

26950 ?

21067 ch

24680 ch

13 JULY
SOOTY TERN BANDING

953-00501 → 01000

13 JULY
HOWLAND -
SOOTY TERN RETURNS

843- ~~36863?~~
~~55824 oe~~
~~36876?~~
~~35164 oe~~
~~38281 ch~~
~~55181 ch~~
~~36949?~~
~~37233 ch~~
~~36095 ch~~

~~29714 ch~~
~~20286 ch~~
~~18557 och~~
773- ~~21736 oe~~
~~22481 ?~~
~~26824?~~
~~28551 ?~~
~~21580 ch~~

793- ~~45346 oe~~
~~48777 oe~~
~~48377 oe~~
~~30084 oe~~
~~49559 och~~
~~48744 ch~~
~~44270 ch~~
~~72937 ch~~
~~47895 ?~~
~~47752?~~
~~30729?~~
~~43848 ch~~
~~30167 ch~~
~~45606~~

~~43857?~~
~~30746 ch~~
~~48102 ch~~
~~45665?~~

14 JULY

SOOTY TERN RECOVERY

863-81519

blue steamer ✓

793-48486

" " ✓

BAND DESTROYED

953-01975

✓

JUNE

BORHAVIA

RETURNS

SOOTY TERN

~~BANDING~~ ADULTS

773-26201 oe

~~29232 ?~~

~~04099 ch~~

~~26418 ch~~

26372 ch

23094 ch

21645

25367

26862

21351 ch

24031

27019

27020 oe

843-37874

45474

38666 oe

25253

37181

35911

36677 BF

79372978 ch

~~43757 ?~~

~~44487 ?~~

30548

47337

39707

39698

72877

72620

30507 ch

15 JULY

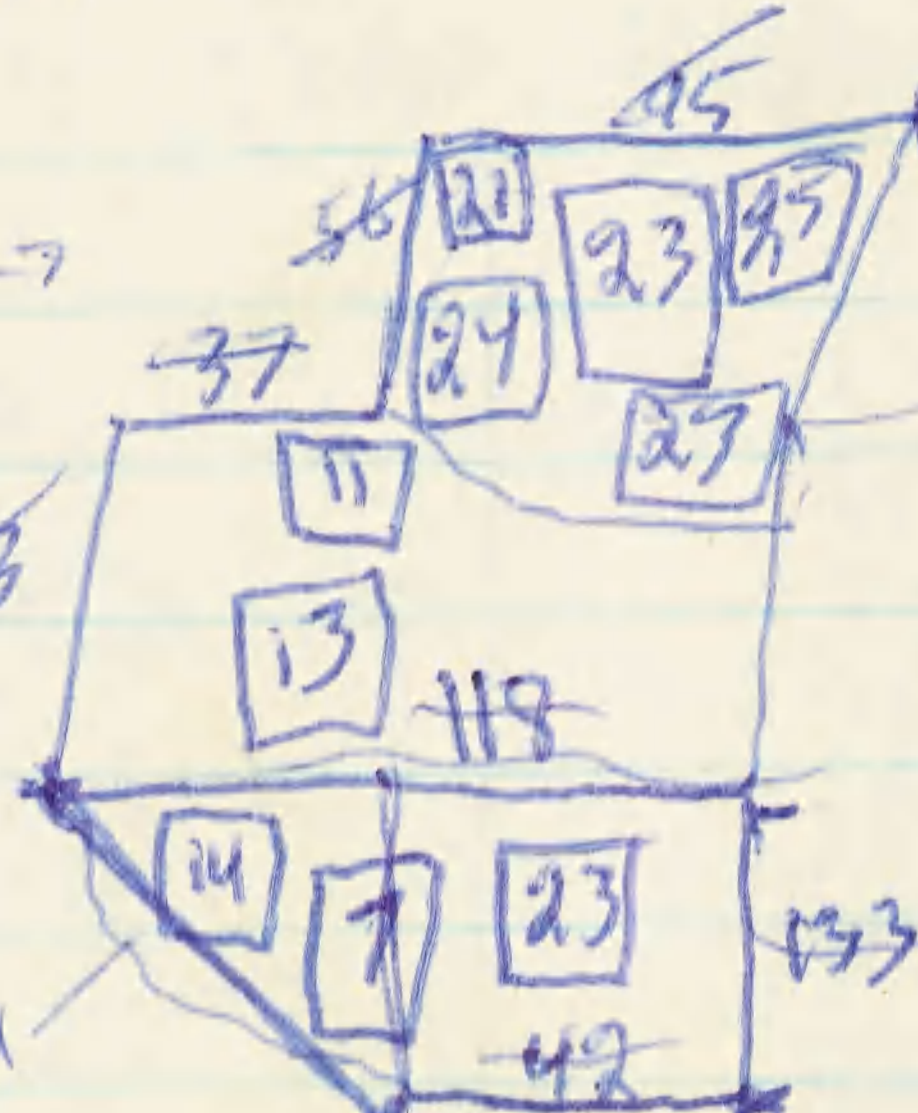
SOOTY TERN NESTING

TRIBULUS
+ high grass
clumps

163

chicks
+ eggs
rock

63



light low
grass

TRIBULUS
+ high
grass

red
high grass

sand +
short
grass
+ TRIBULUS

rock +
grass

see
rock
poutacea

rock + short grass

rock

few
chicks
+ egg

few
eggs
rock

63

30
rock +

39

few
eggs

45

19

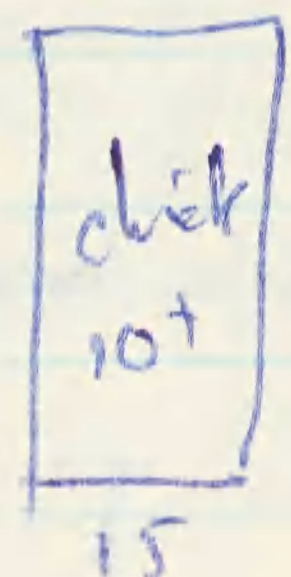
27'



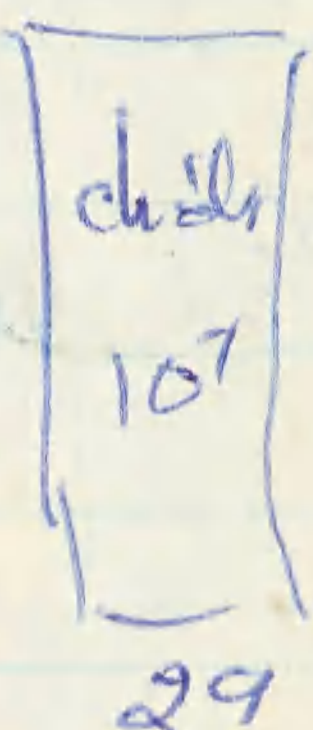
chicks
(10+)
(20+)

most
dense
TRIBULUS

32
rock



AND



70

15 JULY

SOOTY TERN BANDING

953-10001 → ~~10,500~~

10,501 → 11,000

15 JULY ✓ ADP

SOOTY TERN RETURNS:

792-44712 BP ✓
22575 BP ✓
44911 BP ✓
47778 BP ✓
49704 BP ✓
43731 BP ✓
44327 BP ✓
26372 BP ✓
30751 BP ✓
30372 BP ✓
72598 .. ✓
46032 .. ✓
43758 .. ✓
45516 .. ✓
44753 NO BP ✓

783-20440 BP ✓
22032 BP ✓
24047 BP ✓
39760 BP ✓
29019 ch ✓
26963 BP ✓
27243 BP ✓
26576 BP ✓
29238 .. ✓
26262 .. ✓

843-35023 BP ✓
37194 ch ✓
39133 BP ✓
35103 .. ✓

11 17 JULY
HOWLAND IS

S.T. BANDING

953-13601 → 13700 CHICKS

953-13701 → 13800 CHICKS

953-14001 → 14500 ADULTS

14501 → 15,000 ADULTS

18/45

WATCH BFB BOOBY - Adults on return
from shore, often on nest - head shake
sideways, return turns back on nest,
walk around shaking head & giving high
pitch peep-peep sorta sound, some wing
raising with shaking of head, also point
towards wing/shaking & head remains horizontal
10x bill slightly upturned, head either alert posture
or withdrawn, preening under wing &
also at back, body shaking & tail wagging
RITUAL OF NEST CHANGEOVER.

17 JULY

~~HASLAND~~

~~S.T. RETURNS~~

Between 1910 + 1915 count 285
ST returning from direct nest in a
steady stream along corridor toward
the colony, little call, direct flight
at sunset 10:50 - Correlate
to sunlight - directly to colony, how
know where it is.

ALSO 6 BFB adults landed in ^{also} ~~gag~~
on beach ~~some~~ to giving
stream & continued, but
not noticed when began

fly in
imm return to nest - bill clapping &
wing spread to adult, sideways
walking

Reef fish - sort - drops off
to unknown depth - like Seignior
top of cliff on this island -
how deep?

17 JULY
ST RETURNS

✓ADP

773- ~~27483~~ oe ✓
~~20767~~ oe ✓
~~29595~~ oe ✓
~~24582~~ ch ✓
~~21470~~ ch ✓
~~24854~~ ch ✓

793- ~~47548~~ oe ✓
~~72826~~ oe ✓
~~49335~~ oe ✓
~~48749~~ oe ✓
~~44213~~ ch ✓
~~46247~~ ch ✓
~~48047~~ ch ✓

843- ~~55075~~ oe ✓
~~36983~~ ch ✓
~~35852~~ op ✓
~~55677~~ oe ✓
~~55177~~ op ✓
~~39449~~ oe ✓
~~37941~~ ch ✓
~~35685~~ ch ✓
~~37466~~ ch ✓

~~BROWN~~

18 JULY

DOOBY Feeding habits

FLYING fish - red fin
clear fin
black fin

BB- ♂ blue eye ring
♀ spot in front of eye
veef feelers
leave nest much faster than RFB

ST ♂ & ♀ weight diff.
too small nervous?

18 JULY
HOWLAND -
ST RETURNS

✓ ADP

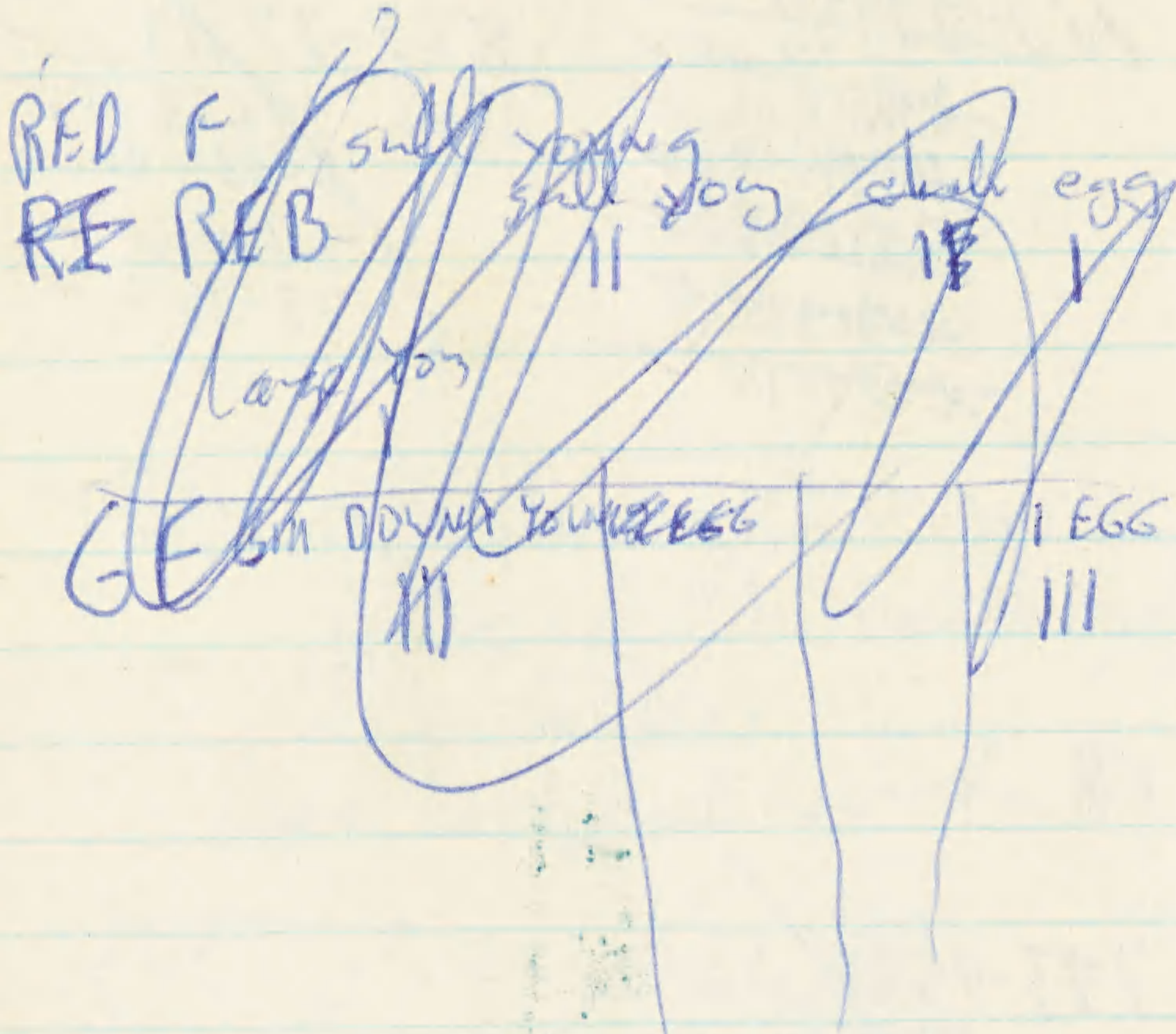
~~773-22908 oe~~ ✓
~~24278 ch~~ ✓
~~29445 BP~~ ✓
~~39518 BP~~ ✓
~~24219 OP~~ ✓
~~24395 BT~~ ✓

~~843-37419 oe~~ ✓
~~38158 BP~~ ✓
~~35663 BP~~ ✓
~~36046 BP~~ ✓
~~38524 "~~ ✓
?

~~793-4550 oe~~ ✓
~~44705 BP~~ ✓
~~48358 BP~~ ✓
39989 BP ✓

19 JULY

CENTRAL CORDIA GROVE
RT TROPICBIRD small downy chick



subadults - 144
subad - white
lead

RFB chicks in hot sun
hanging lead

	NAKED	small downy chick	med chick	large chick	EGG
GF	III	IIII	IIII	IIII	IIII
	II	IIII	IIII	IIII	IIII
	II	IIII	II	II	IIII
					IIII

GF 2 small downy young
lesser ♀ on 2 eggs
small young med young
EGG

RFB
NAKED
Young
III

TOTALS	YOUNG NAKED	DOWNY SMALL	MED-LARGE	EGG	
Great F	15	34	27	58	134
RFB	3	6	10	8	27
RTBRTTB		1			1

19 JULY
HOWLAND
BROWN BOOBY

identify
chicks?

build nest - Portulaca?
(BFB nest)

Came, wash bucket from BFB out BFB
hot sun 1600 wind - S but

10 40 yds 25 yds from ch	
50, 17 yds downwind	
1 EGG	2 EGG
	Small chick
	3 EGG

II	III	II	I
1 clutch 2 RUNTS			

FD - 13 yds from egg downwind
upwind 6 + 8 yds, 25 yds

imm 3 4

? chicks / 4

Stake for island

hermit crabs - eat end of the
shell out on sand
under rock hiding?

PORTUNIDAE

giant crab

19 JULY

HOWLAND

✓ADP

ST Returns

793-48874 BP ✓

25460 BP ✓

44428 oe ✓

44423 ch ✓

45874 ch ✓

47189 ch ✓

47268 ch ✓

49297 BP ✓

47554 BP ✓

753-67679

577-27069 ch ✓

26835 BP ✓

28509 BP ✓

24196 BP ✓

25452 BP ✓

24677 oe ✓

30025 oe ✓

28068 BP ✓

26331 ch ✓

23149 BP ✓

29375 BP ✓

29228 BP ✓

28781 oe ✓

27077 BP ✓

843-35245 BP ✓

35293 BP ✓

35104 BP ✓

35546 oe ✓

36616 oe ✓

38719 ch ✓

38976 BP ✓

36597 ch ✓

35011 ch ✓

36875 ch ✓

38420 BP ✓

55258 BP ✓

35248 oe ✓

37003 ch ✓

37065 BP ✓

55693 BP ✓

37890 BP ✓

36949 BP ✓

55653 ✓

35793 ✓

36035 BP ✓

35476 oe ✓

19 JULY

ST Returns

✓ADP

793-45171 BP ✓

44464 BP ✓

48157 BP ✓

47773 BP ✓

45932 BP ✓

46147 BP ✓

44517 BP ✓

72938 ✓

72687 ✓

30711 ✓

48760 ✓

72795 oe ✓

44805 BP ✓

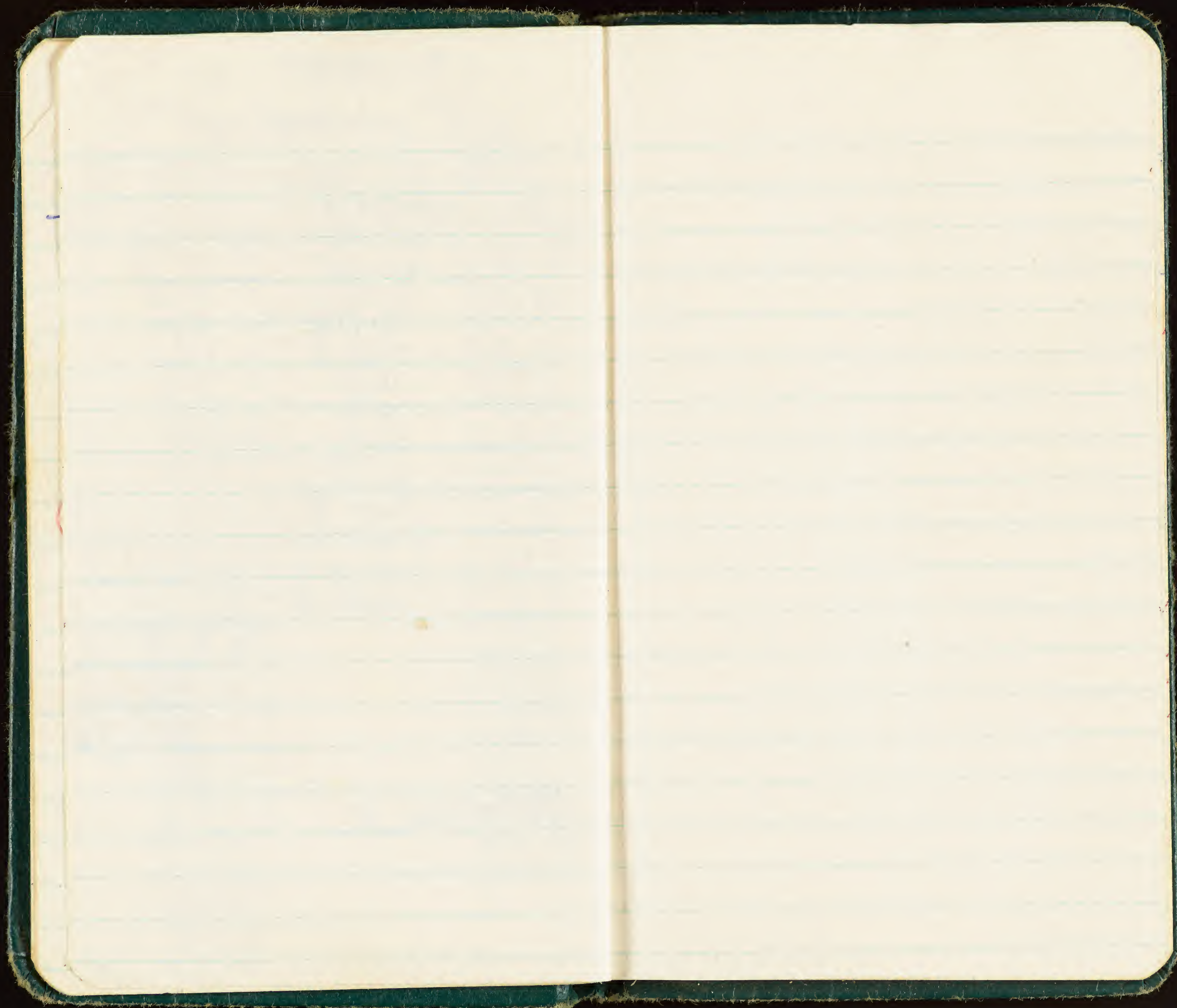
48007 BP ✓

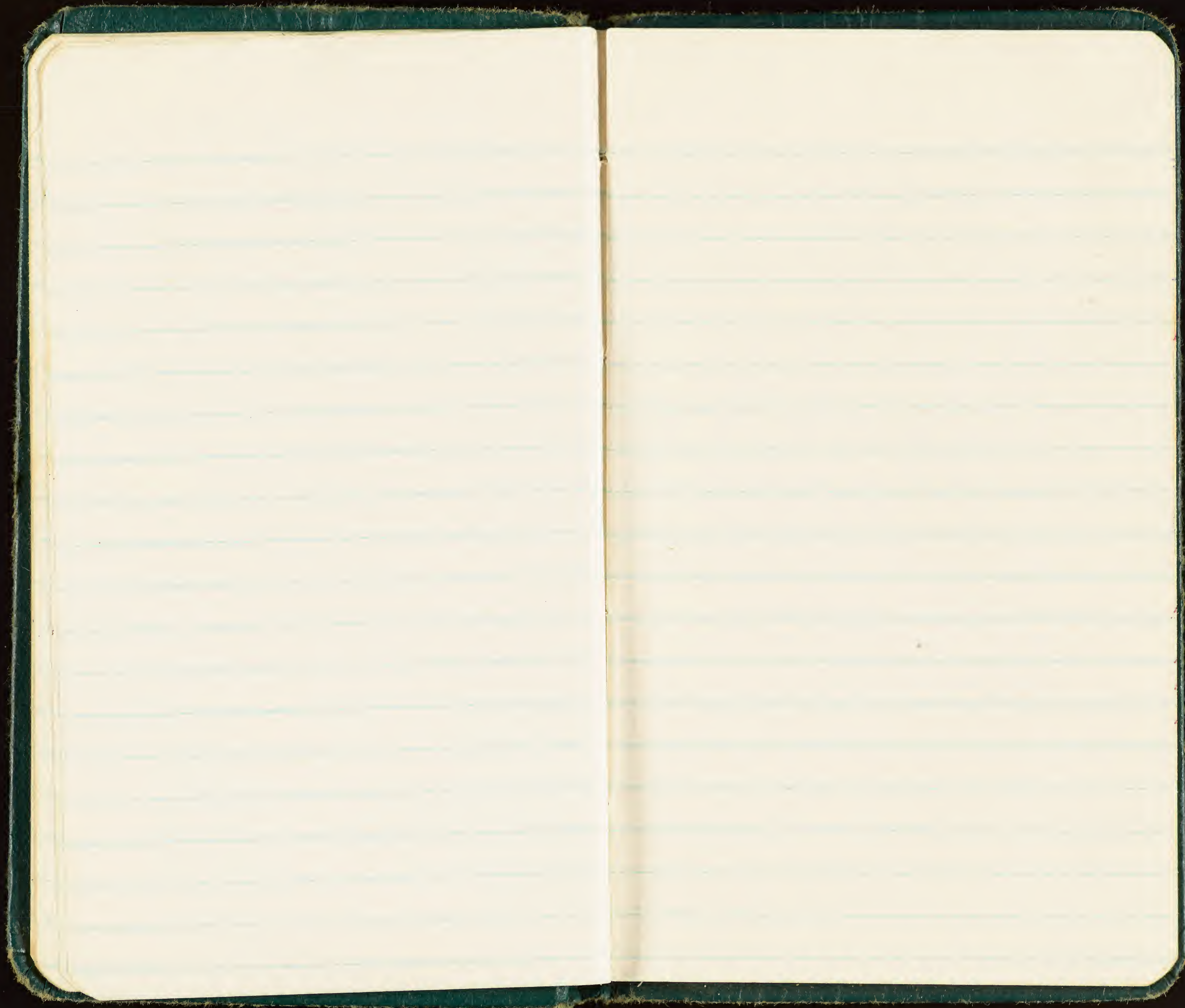
43734 oe ✓

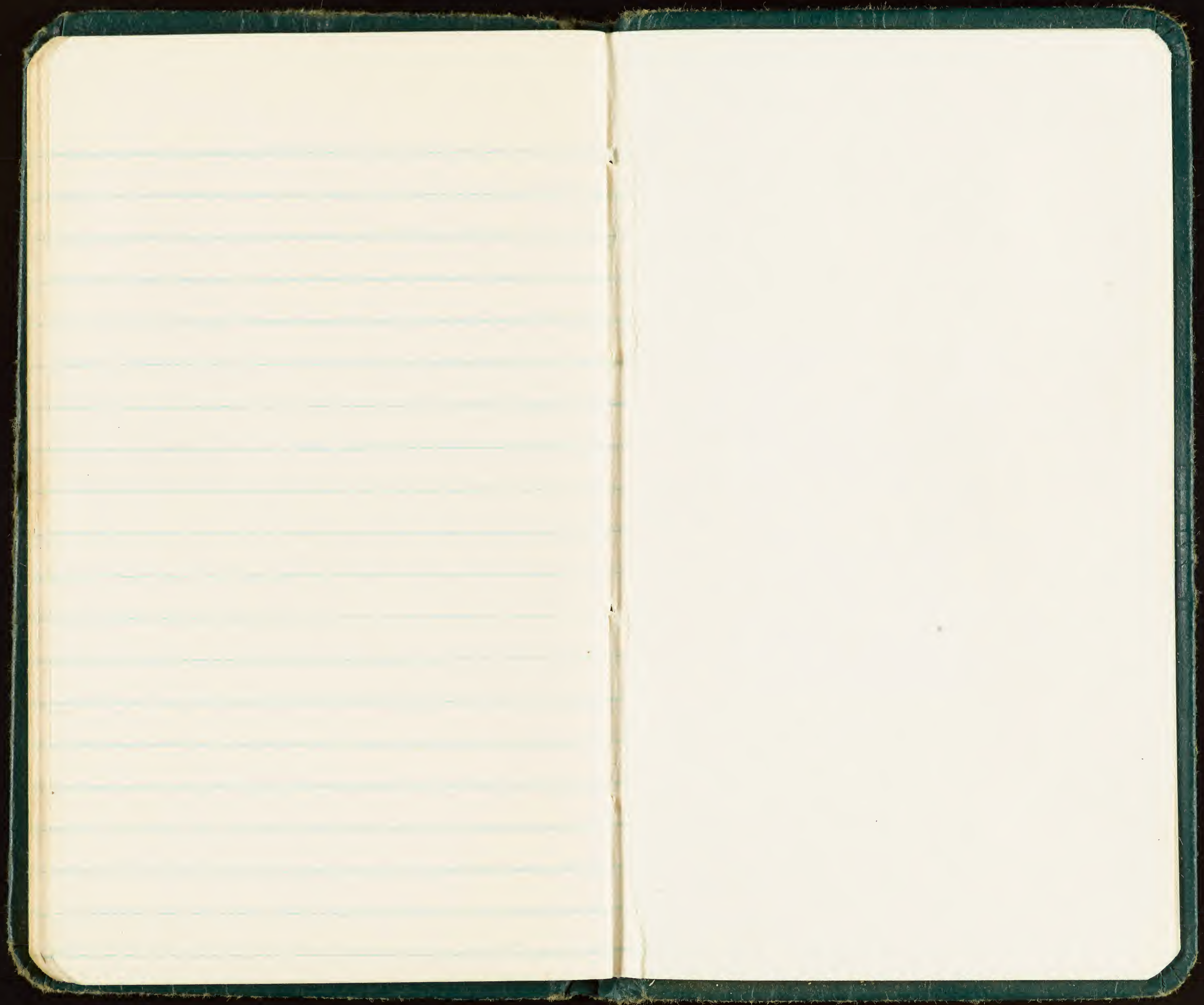
43345 BP ✓

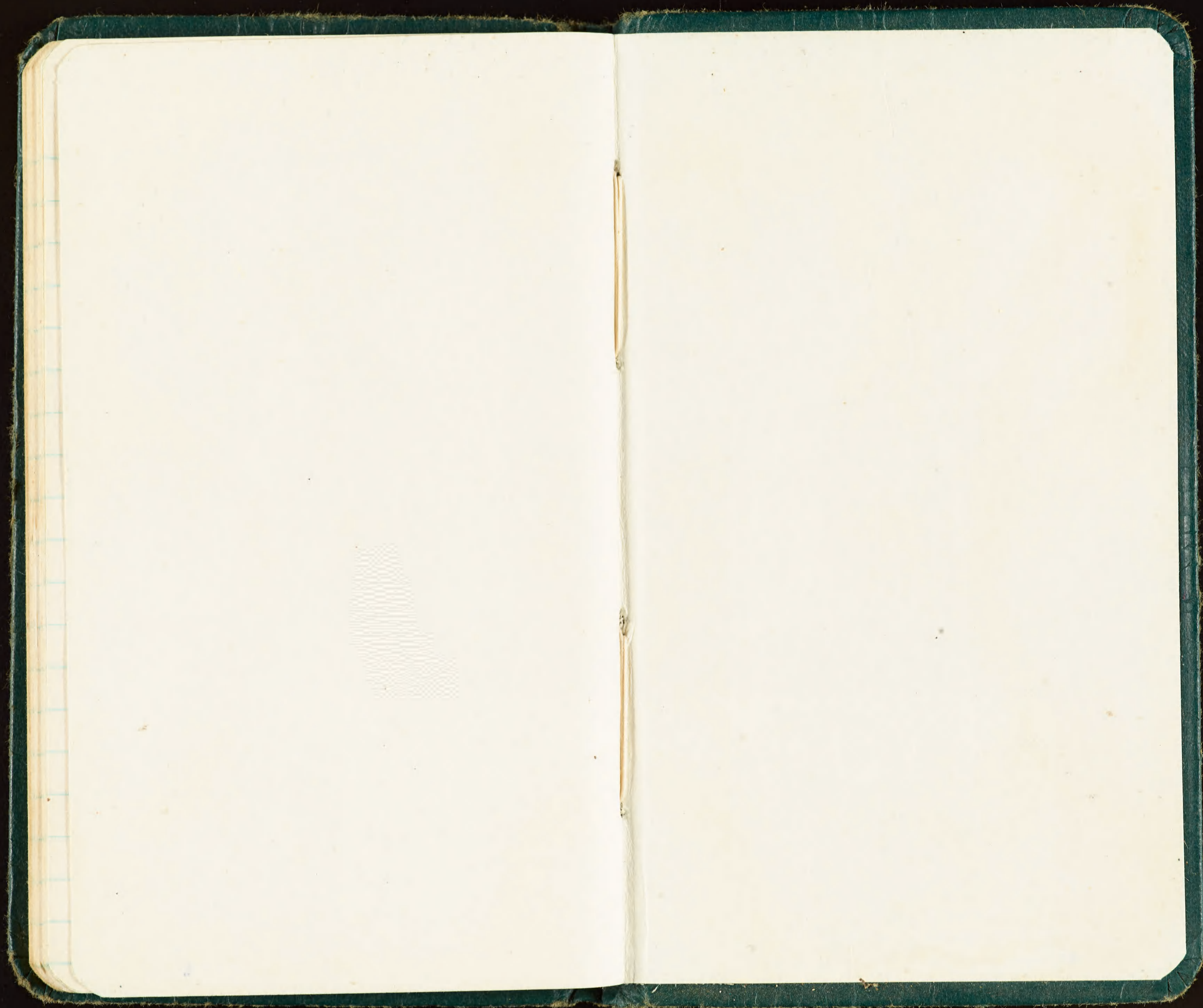
773-29711 ch ✓
25866 ch ✓
30049 ✓
29732 oe ✓

823-01765 BP ✓









7530-222-0078
FEDERAL SUPPLY SERVICE

Memoranda

WALT BULMER

BAKER ISLAND

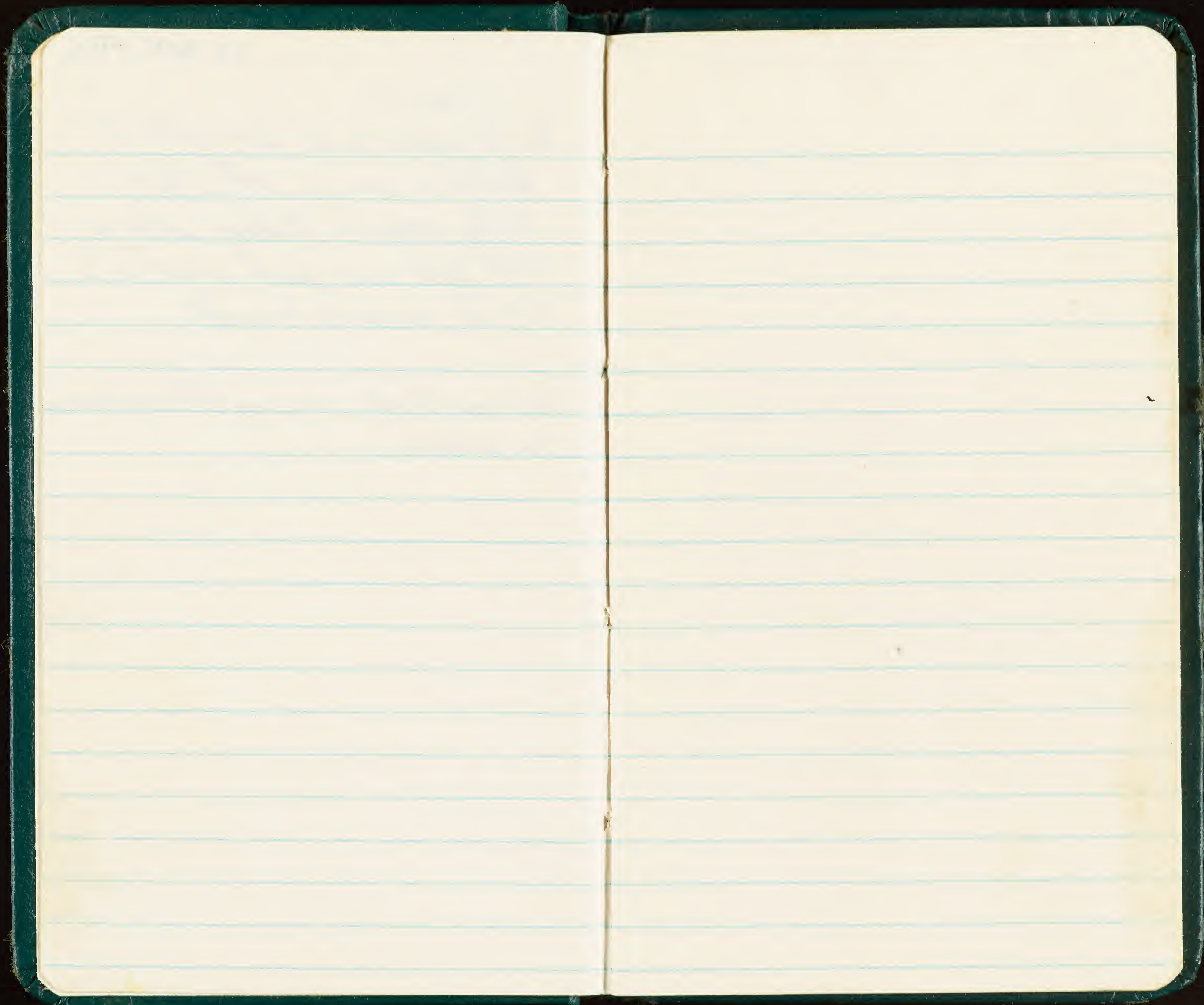
✓ ADP
C D K
Done 8/17/68

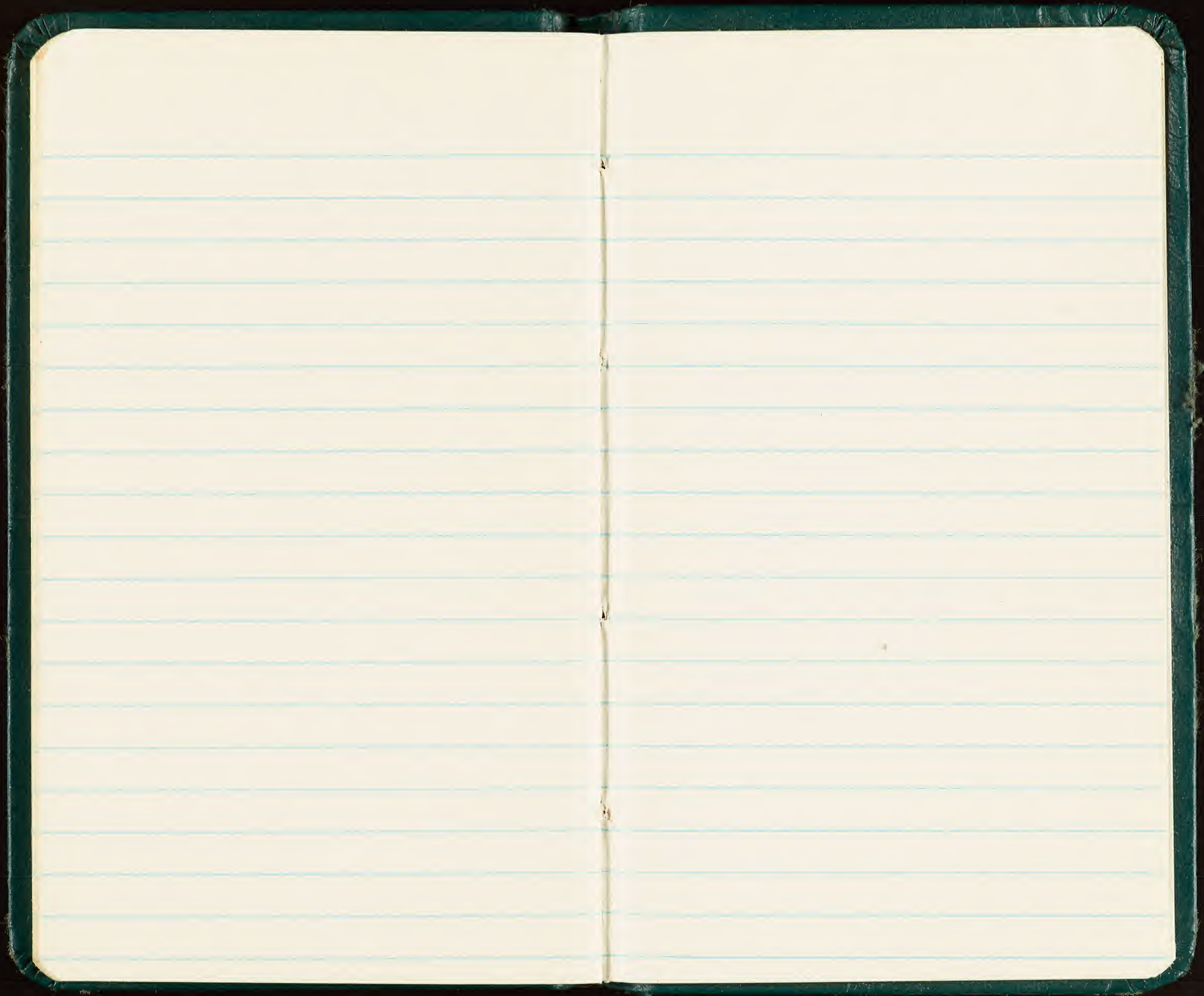
12 JULY, 1966

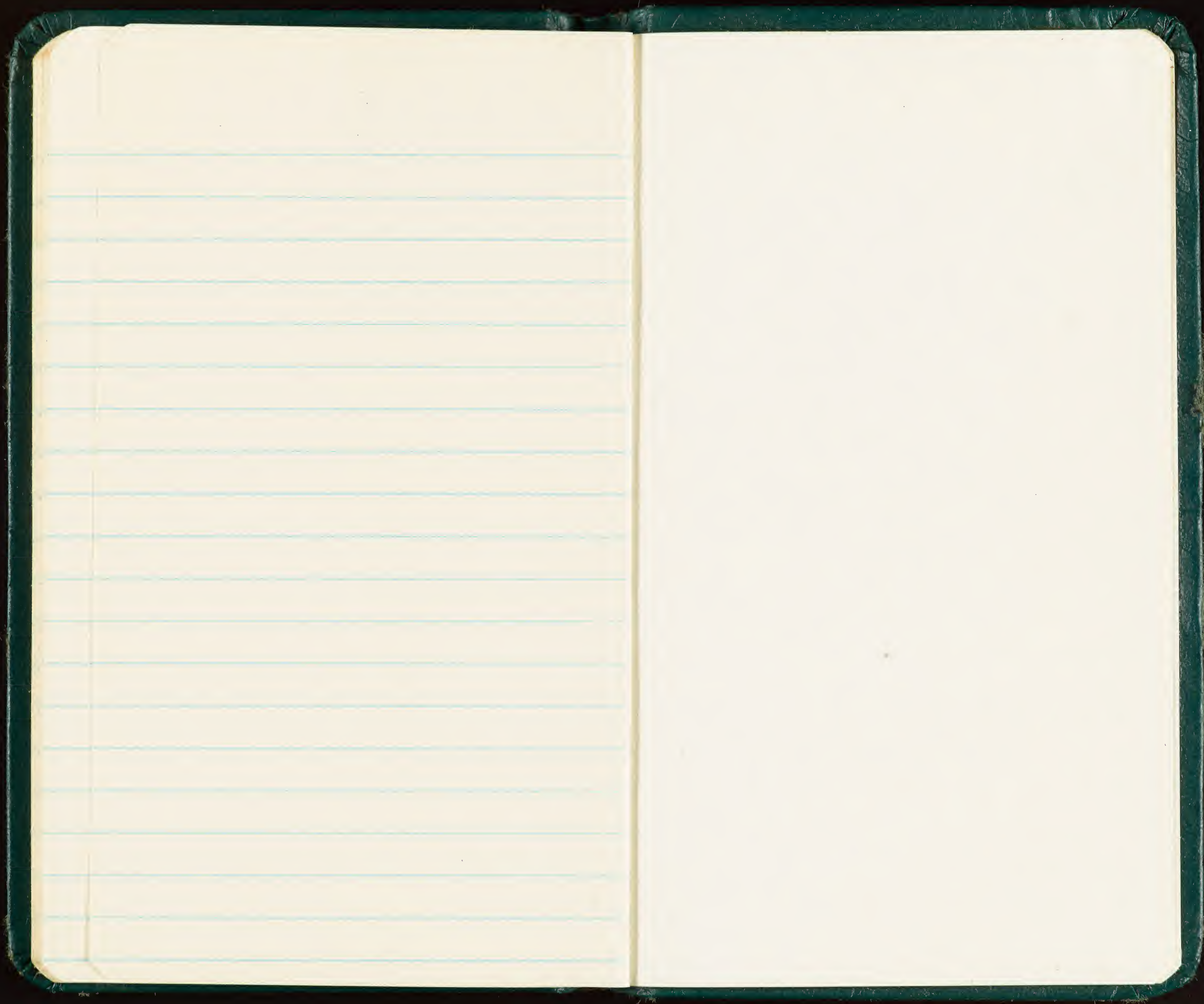
LESSER

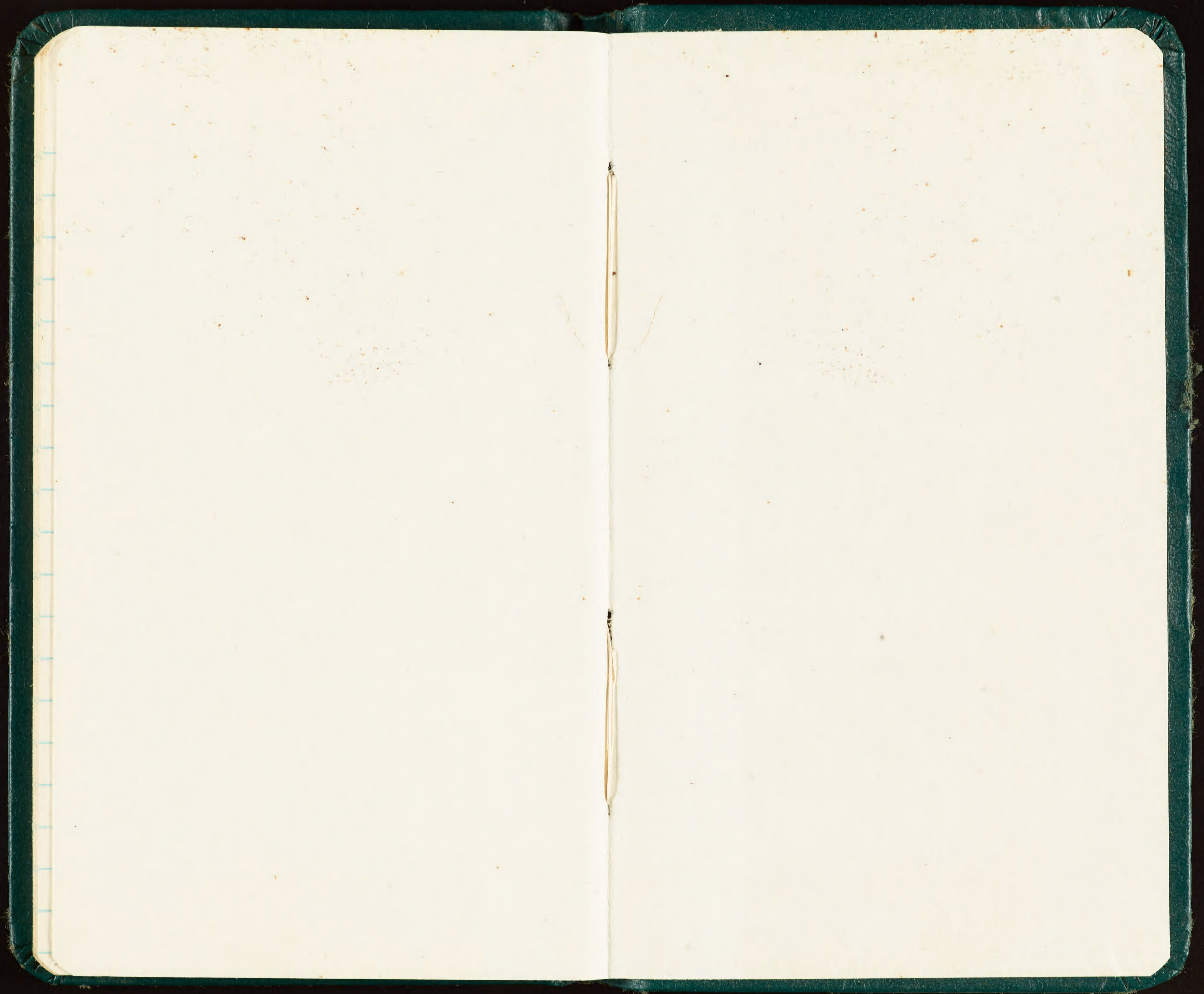
♀ Frigate bird chasing BFB
Bater - 2m in off shore
booby came from island
and had no food. went into
H₂O to escape Frigate

♀ Lesser Frigate chasing BFB similar
to above









7530-222-0078
FEDERAL SUPPLY SERVICE